



# Q4C II Controller & Alarm Communicator



The Q4C II is a multi-channel controller display and alarm unit that utilizes digital communications to interface with a maximum of four (4) remote digital transmitter/sensors. This series provides reliable measurement of a wide variety of toxic gases such as CO, NO2, NH3, H2S, SO2, Refrigerants, and Combustibles. The RS-485 communication is connected via a 4-wire, multidrop daisy chain configuration to reduce the overall installation cost of the system. Alarm setpoints are set through the front keypad or the M-View software (Included) that is downloaded to the Q4C II from a PC or laptop computer. Common relay configurations include voting, averaging, delay on actuation and de-actuation, normally or not-normally energized and latching. The audible alarm has three buzzer settings; continuous, intermittent and double-tap intermittent. The Q4C II has a dedicated 24 VDC transistor output terminal for horn and strobe. Includes four (4) SPDT relays and an RS-485

Modbus output with BACnet IP option available. The Q4C II comes standard with a 128 X 32 backlit display, key pad, software and interface cable. Refer to all applicable Federal, State, Provincial and Local Health and Safety laws and regulations before using these products.

**Applications:** Underground Parking Garages, Water Treatment Plants, Municipal Service Garages, Aircraft Hangers, Chiller Monitoring, Warehouses, Automobile Dealerships & Battery Charging / Storage

**well as on ACI's website, The Q4C Series is covered by ACI's Two (2) Year Limited Warranty. The warranty can be found in the front of ACI's Sensors & Transmitters catalog, as well as on ACI's website,**

PRODUCT SPECIFICATIONS	
<b>Input Power<sup>1</sup>:</b>	18 – 30VDC, 24 VDC Nominal, 12 – 24VAC, 24VAC Nominal   Half-wave or Full wave rectified
<b>Current:</b>	0.75 max (Fuse protected)
<b>Enclosure:</b>	IP66 & NEMA 4, 4X, 12 & 13 ratings   UL listed 508 listed (File # E65324)
<b>Operating Environment:</b>	Indoor use only
<b>Enclosure Material:</b>	ABS Plastic
<b>Operating Temperature Range:</b>	<b>Industrial:</b> -20° to +50° C (-4° to 122° F)
<b>Operating Humidity Range:</b>	Continuous 5 to 95% RH, non-condensing up to 31 C, decreasing linearly to 80% @ 40C
<b>Input Types:</b>	RS-485 digital port for up to 4 QEL transmitter/sensors   USB programming port
<b>Output Comm Ports:</b>	Modbus RTU (Slave), BACnet IP (Optional)
<b>LED Status Lights:</b>	Eight (8) Status LEDs: RS-485 port TX/RX Status LED for Sensor Network RS-485 port TX/RX Status LED for Modbus or BAC-Box 4 Relay Status LEDs
<b>Recommended Cable:</b>	<b>Power:</b> Twisted shielded pair <b>Communication:</b> (RS-485) - Belden 9841 or equivalent
<b>Panel Controls:</b>	4X tactile and audible keypad
<b>Audio/Visual Indicators:</b>	Two (2) 24VDC transistor ports 250mA max (Fuse protected) each
<b>Relay Outputs:</b>	Four (4) SPDT 5A resistive @ 250VAC/30 VDC   3.7A Inductive @ 250VAC/30 VDC
<b>Relay Assignment:</b>	Independent, individually set to one or all transmitter/sensors
<b>Time Delays:</b>	0 – 60 Minutes On/Off delays
<b>LCD Display:</b>	128 x 32 LCD Display c/w Backlight
<b>Product Dimensions:</b>	7.09" (180.00 mm) x 4.72" (120.00 mm) x 3.54" (90.00 mm)
<b>Product Weight:</b>	1.87 lbs (4.12 kg)

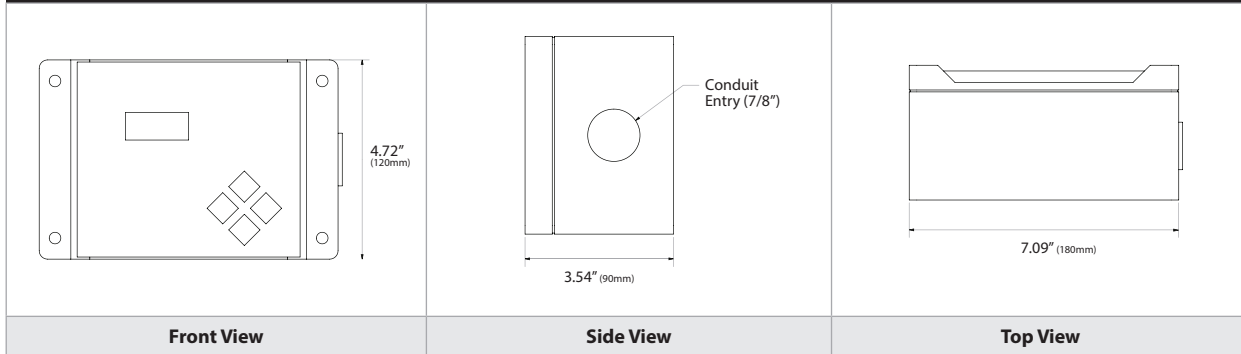
**Note:** Sensors and system should be scheduled to be tested for accuracy and functionality every 6 months for toxic, and every 3 months for combustible | Recalibrate or replace sensor boards if necessary

**Note<sup>1</sup>:** Refer to wiring diagram or contact ACI Technical Support for wiring connections





**DIMENSIONAL DRAWING**



**STANDARD ORDERING**

Model #	Item #	Description
Q4C-II-X	150796	Controller with M-View Software and Programming Cable

**ACCESSORIES ORDERING**

Model #	Item #	Description
85530-010-000	150896	M-View USB Software
M-SWITCH	127160	M-Switch for M-Controller / Q4C Controller
5610-0101	150897	USB A to USB B M/M Programming Cable
BAC-BOX-0	127160	BACnet IP Output Module

**ACCESSORIES ORDERING | HORN STROBE**

Model #	Item #	Description
FSIG-SLM500A	136476	Streamline Horn and Strobe (Amber)
FSIG-SLM500B	142976	Streamline Horn and Strobe (Blue)
FSIG-SLM500C	150028	Streamline Horn and Strobe (Clear)
FSIG-SLM500G	143013	Streamline Horn and Strobe (Green)
FSIG-SLM500R	143132	Streamline Horn and Strobe (Red)

**ACCESSORIES ORDERING | MOUNTING BASE**

Model #	Item #	Description
FSIG-SLMBD-012-024GY	142977	Deep Base for FSIG-SLM500 Series; Gray
FSIG-SLMBW-012-024GY	136477	Wall Mount Base for FSIG-SLM500 Series; Gray

**Note:** See Strobe & Alarm Data Sheet if required